Module 5

Data Source : Excel spreadsheet

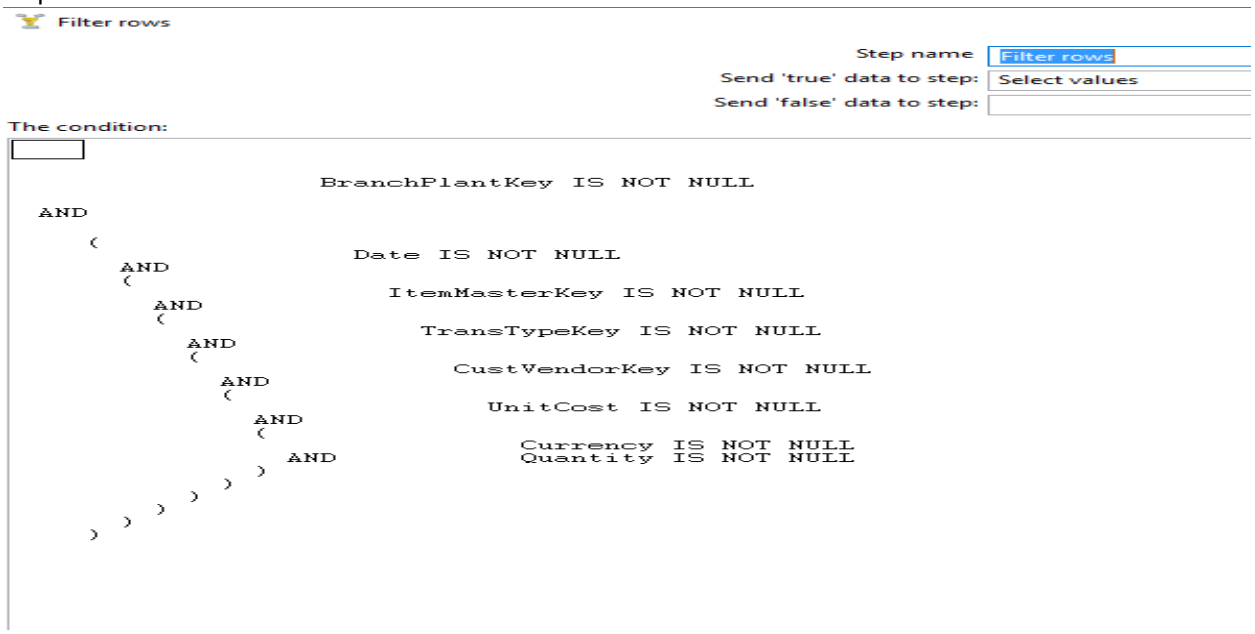
Software : Pentaho Data Integration Software and Oracle Database.

Steps:

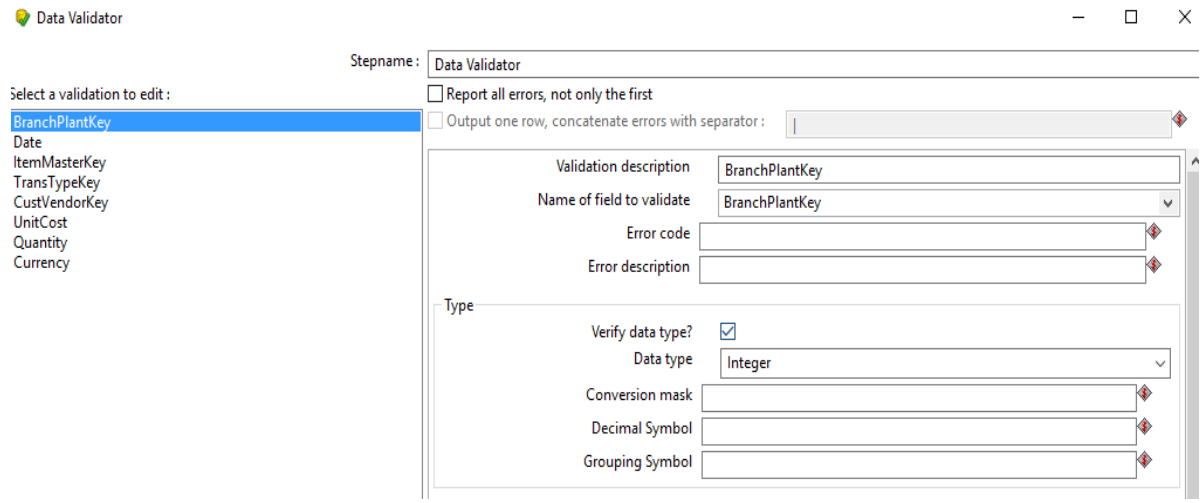
1.Requirements : First Excel file is loaded

Checked if any data is null or not and then added some validations.
By doing some validations , checking the data type and constraints.
Sort and Merge Operations are applied.

Step 1:

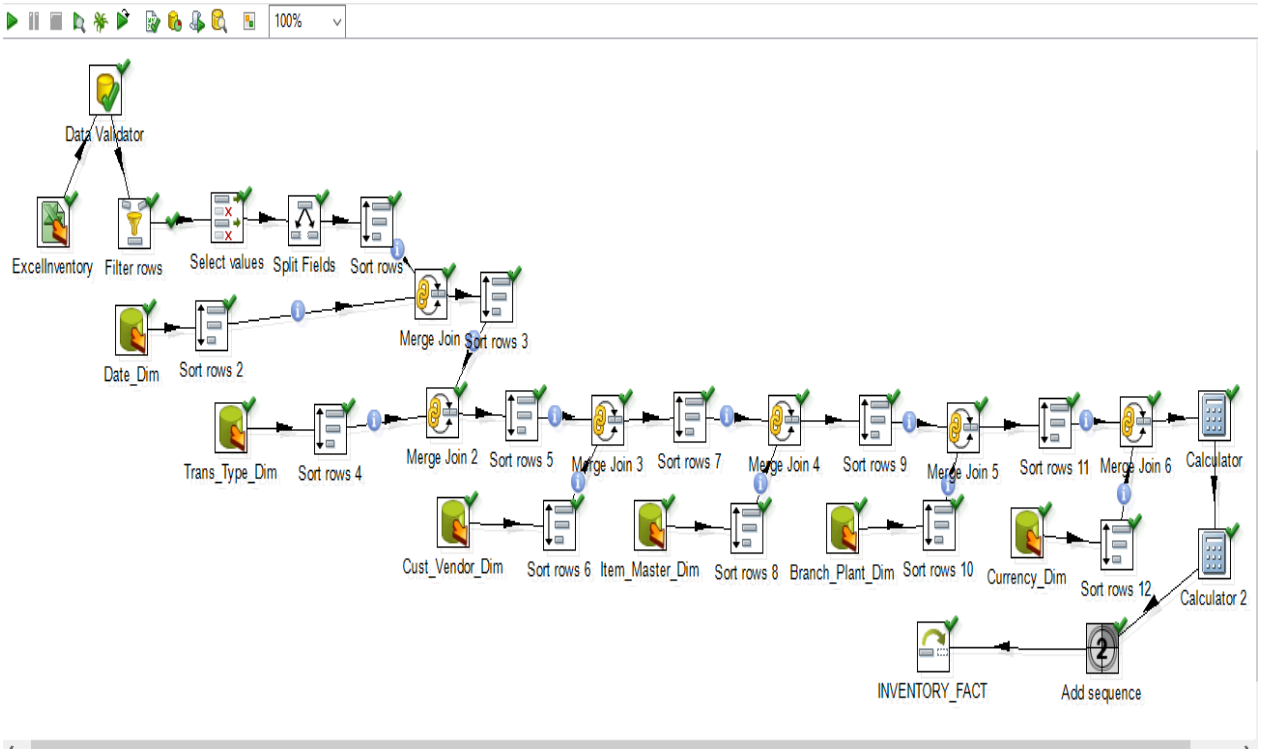


Step 2:



3.Transformation:

Step 2:



1. Calculator1 => represents Unit_Cost(Inserting) = Unit_Cost * Exchange_Rate
2. Calculator2 =>reprsents Ext_cost = Unit_Cost(calculated from Calculator 1)* Quantity

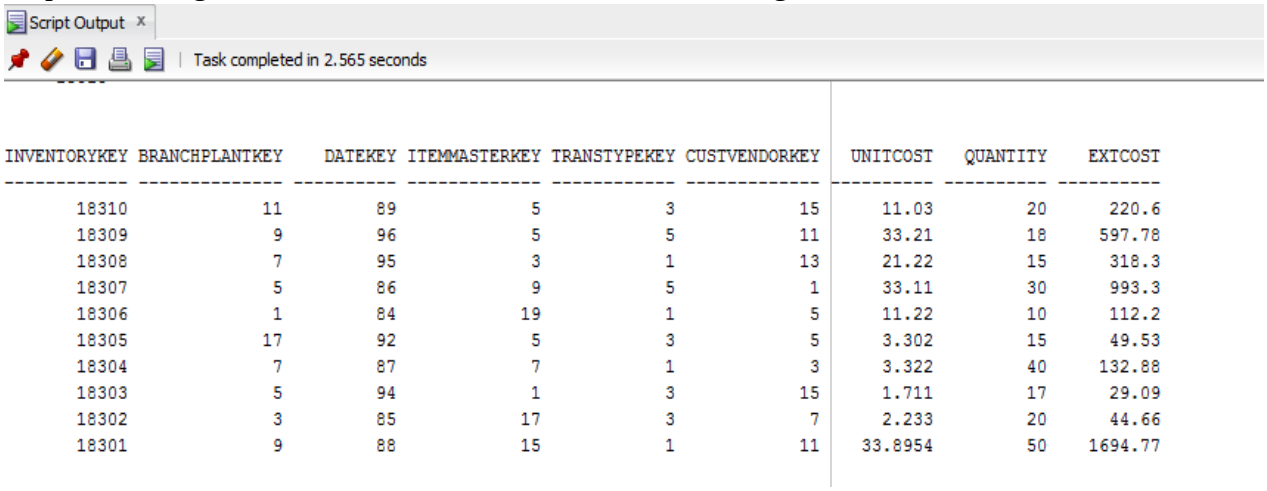
Output: 10 rows will be affected.

Execution Results

Execution History | Logging | Step Metrics | Performance Graph | Metrics | Preview data

#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)
9	Sort rows 4	0	5	5	0	0	0	0	0	Finished	0.0s	250
10	Sort rows 3	0	11	11	0	0	0	0	0	Finished	1.0s	11
11	Merge Join 2	0	16	11	0	0	0	0	0	Finished	1.3s	13
12	Sort rows 5	0	11	11	0	0	0	0	0	Finished	1.3s	9
13	Cust_Vendor_Dim	0	0	20	20	0	0	0	0	Finished	0.6s	32
14	Sort rows 6	0	20	20	0	0	0	0	0	Finished	0.6s	32
15	Merge Join 3	0	31	10	0	0	0	0	0	Finished	1.6s	20
16	Sort rows 7	0	10	10	0	0	0	0	0	Finished	1.6s	6
17	Item_Master_Dim	0	0	20	20	0	0	0	0	Finished	0.6s	32
18	Sort rows 8	0	20	20	0	0	0	0	0	Finished	0.6s	32
19	Merge Join 4	0	30	10	0	0	0	0	0	Finished	1.9s	16
20	Branch_Plant_Dim	0	0	20	20	0	0	0	0	Finished	0.6s	32
21	Sort rows 10	0	20	20	0	0	0	0	0	Finished	0.6s	32
22	Sort rows 9	0	10	10	0	0	0	0	0	Finished	1.9s	5
23	Merge Join 5	0	30	10	0	0	0	0	0	Finished	2.2s	14
24	Currency_Dim	0	0	4	4	0	0	0	0	Finished	0.6s	6
25	Sort rows 12	0	4	4	0	0	0	0	0	Finished	0.3s	14
26	Sort rows 11	0	10	10	0	0	0	0	0	Finished	2.2s	4
27	Merge Join 6	0	14	10	0	0	0	0	0	Finished	2.5s	6
28	Calculator	0	10	10	0	0	0	0	0	Finished	2.5s	4
29	Calculator 2	0	10	10	0	0	0	0	0	Finished	2.5s	4
30	ExcelInventory	0	0	15	15	0	0	0	0	Finished	0.6s	24
31	Data Validator	0	15	15	0	0	0	0	0	Finished	0.6s	24
32	Add sequence	0	10	10	0	0	0	0	0	Finished	2.5s	4
33	INVENTORY_FACT	0	10	10	10	10	0	0	0	Finished	2.5s	4

Step 4: Loading ,we can see there are 10 new rows, that are get inserted in the database.



INVENTORYKEY	BRANCHPLANTKEY	DATEKEY	ITEMMASTERKEY	TRANSTYPEKEY	CUSTVENDORKEY	UNITCOST	QUANTITY	EXTCOST
18310	11	89	5	3	15	11.03	20	220.6
18309	9	96	5	5	11	33.21	18	597.78
18308	7	95	3	1	13	21.22	15	318.3
18307	5	86	9	5	1	33.11	30	993.3
18306	1	84	19	1	5	11.22	10	112.2
18305	17	92	5	3	5	3.302	15	49.53
18304	7	87	7	1	3	3.322	40	132.88
18303	5	94	1	3	15	1.711	17	29.09
18302	3	85	17	3	7	2.233	20	44.66
18301	9	88	15	1	11	33.8954	50	1694.77